

Life magazine features BYU mascot Daily Universe

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Wednesday, October 25, 1961

Provo, Utah

Dr. Allen completes study on immunology

Immunology of rats was the subject of a post doctoral research fellowship project completed this summer by Dr. Lester Allen, assistant professor of biology.

Dr. Allen returned to BYU in August after a year of research under a grant from the National Government's National Institutes of Health. The work was done at the University of California in Los Angeles.

According to Prof. Allen, the project studied the effects of using unborn and newly born rats to infection with the malarial parasite trypanosoma.

An unexpected finding of the study was that a newborn rat would become immune to the mite if injected with a dose of the parasite before or shortly after birth, Dr. Allen said.

He explained that in some cases the offspring were found to be immune when tested five days after birth with an injection of the parasite.



A LESTER ALLEN

tion of the parasite. Normally the offspring would become diseased.

"It was formerly thought that to flood a young rat with infectious protozoa would cause a tolerance in the rat," Dr. Allen said.

"OUR RESEARCH showed that apparently this does not always happen. Rather, some of our rats developed immunity to some antigens of the protozoa but tolerance to other of the antigens," he explained.

"A tolerance," Dr. Allen continued, "is when an animal exposed to an antigen (a foreign protein) shows an unresponsiveness to that antigen when it is exposed to it at a later date."

As an example of tolerance, Dr. Allen said that a rat injected with blood cells from another rat will develop a tolerance so it can accept a skin graft from that rat. Normally, he said, the graft would not take.

FROM THE STUDY it was confirmed that mother rats are able to transmit immunity through the blood stream to the unborn rat. Prof. Allen said.

"Also, the study confirmed earlier studies that the mother rat can transmit immunity to the newborn rat through her milk," he explained.

Dr. Allen is chairman of the Pre-Professional Committee which advises pre-dental and pre-medical students in their curricula.

He came to BYU in 1954. Prior to that time he taught at the Orange Coast Junior College in Costa Mesa, Calif.

Dr. Allen received his bachelor's degree in meteorology in 1946 from UCLA. In 1951 he was awarded a Ph.D. from the same university.

African nations try to be modern: Sen. Frank Moss

"The new independent nations of Africa are trying to keep up to the 20th century in a sweeping tide," stated Senator Frank E. Moss (D. Utah), speaking before the International Relations Club Tuesday.

SENATOR MOSS, who went to Africa in 1960 in behalf of the newly-elected Kennedy Administration, visited the new independent nations of Africa to confer with government officials there and see what the United States could do about establishing better relations with them.

"One of the biggest challenges facing the United States today is how to deal with the governments of these newly formed nations," said Senator Moss, in pointing out that there were 17 nations born in 1960, bringing the total of independent nations in Africa to 28. "We must be willing to help these new nations," he continued, "or they will have to turn to Russia."

ACCORDING TO Senator MOSS the main problem faced by the new African nations is in agriculture. "They can't farm enough food to feed their people without outside help," he stated.

"The need for primary and secondary schools is very crucial," said Senator Moss in regard to another major problem facing the new African nations. College graduates are needed to man the state ministries, but the natives must have more chance to receive a background, so that they can go on to higher education.

Engineering Dept. aids missile work

by Les Young
Universe Staff Writer

BYU has an instrument which helps determine more efficient designs for rocket nozzles such as used on the Minuteman Missile.

"It has, however, been setup on the parking lot outside the Fletcher Engineering Lab" according to Dr. John Simonsen, chairman of the Mechanical Engineering Dept.

When asked why the instrument, called "Schlieren equipment" was assembled outside rather than inside the lab, he explained, "Our projects are simply growing faster than our facilities to house them."

"We have students working on \$22,000 contracts from Hercules Powder Co. to test designs for rocket nozzles in connection with the Minuteman project."

ON THE SCHLIEREN equipment, we are able to take colored photos of gas flow patterns as they pass through the nozzle. By analyzing the pictures, we can determine where hot spots are likely to burn through the walls of the nozzle, and also we can estimate temperatures reached within the jet," he pointed out.

RESIDES TESTING nozzle designs, students have also been helping develop a method of steering the rocket by injecting fluid into the side of the jet stream.

The fluid causes a pressure on that side which in turn causes the jet stream to bend, thus changing the course of the rocket.

Pix show cougar hunt and pre-game activities

BYU has made national headlines. Approximately six million readers of Life Magazine will read about Cougar Days in Thursday's issue.

Three pictures showing the cougar hunt, the bonfire rally and the cougar at the football game, plus story material will cover two pages in the national circulation magazine.

MORE THAN 1,000 copies have been ordered and will be sold on campus by the BYU Bookstore.

There is a long story behind the origin of Cougar Days, the hunt for a cougar mascot and their eventual publicity on a national scale.

Del Faddis, when he was running last spring for social vice-president, thought of Cougar Days as a campaign idea for a new social event on campus. However, the idea mushroomed into an activity involving both social and student relations areas.

DURING THE summer, George Mangan, student relations vice-president, and Faddis decided to include a cougar hunt, to capture a university mascot, within the framework of Cougar Days.

Henry Hellesen, studentbody president, Paul E. Felt, student coordinator, Edwin J. Butterworth, director of the News Bureau and Lester B. Whetten, director of public relations, were consulted. It was finally decided to proceed rapidly, with caution.

Meanwhile, Ray Goad, assistant to Faddis, was back in

Washington, D.C., where he happened to meet an agent of Life Magazine. The agent thought the Cougar hunt-mascot idea was sound and advised the fellows to continue their efforts to interest Life in the story possibilities.

FINALLY, LIFE sent for Lee Wiener, their western area photographer from Los Angeles. Mr. Wiener picked up Life reporter Bob Ottum in Salt Lake City and on Oct. 6, they were here on campus preparing for the cougar hunt.

Hayes Gorey, reporter, and George Bettridge, photographer, both of Salt Lake City, representing "Sports Illustrated" also covered the Cougar Day festivities.

Beginning with the ill fated balloon drop, all facets of BYU Cougar Days were photographed and reported. Mangan, estimated that more than 2000 pictures were taken just by the Life photographer.

THE STORY and pictures were sent to the New York office of Life, where they were put on a desk with hundreds of other stories and thousands of other pictures.

On Oct. 16, Life's managing editor and staff discarded enough material to print three or four issues of the magazine, keeping only those articles with the greatest human interest.

As a result of ingenuity, planning, persistence and hope, the story of BYU's cougar mascot will soon appear on the news stands.



HERITAGE HALLS MAP—Bob Jackson and Doug Hansen discuss the usefulness of the new directory placed at the west entrance of Heritage Halls.

IK's solve problem ...

Directory shows map of Halls

Parents and suitors of Heritage Hall coeds can thank the Intercollegiate Knights for solving the dilemma as to where and in which building they live.

LOCATED on the corner near Felt and Broadbent Halls, a large directory shows the position of each of the 24 halls in relation to the directory.

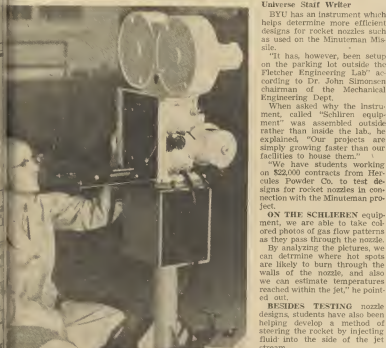
The directory was erected by the IK's with money made from the sale of movie discount cards. This is one of the many projects the sale of these cards finance.

"WE CONTRIBUTE to funds, make possible scholarships for outstanding students, support student projects and donate to

the Campus Chest drive each year," said Richard Norton, IK chairman of the Intercollegiate Knights.

The cards may be purchased by faculty and staff members as well as students. The cost is one dollar. For this amount the holder is entitled to one free movie and a 24 per cent discount on all subsequent movies, according to Norton.

Discount cards are on sale in the lobbies of the Fyring Science Center and the Smith Family Living Center Tuesdays and Thursdays from 9 a.m. to 4 p.m. During the week, interested persons can get a card from any IK. Contact Joseph Smith Information Booth, Norton said.



SCHLIEREN EQUIPMENT—Faculty member Charles Warner operates the Schlieren camera equipment during a night project in the parking lot of Fletcher Engineering Lab.



TO AND FRO—Jean Wood watches the swinging Foucault Pendulum as it demonstrates the rotation of the earth. Once stolen and damaged, the ball was found and rescued. Every 37 hours the earth makes one complete rotation beneath the swinging weight.

SOCIAL CALENDAR

Event—Time	Place
WEDNESDAY	
Assembly, Pres. Joseph Fielding Smith, 10 a.m.	Fieldhouse
Movie, "High Society," 4:15 and 6:45 p.m.	167 McKay
THURSDAY	
Lyceum, Peit Kee, organist; 8:15 p.m.	Smith Auditorium
Movie, "High Society," 4:15 and 6:45 p.m.	167 McKay
FRIDAY	
Student Assembly, 10 a.m.	Smith Fieldhouse
Freshman Inaugural Ball, 9:00 p.m.	East Gym and SFLC
Movie, "High Society," 4:15 and 6:45 p.m.	167 McKay

Campus quickies...

Frosh slave ball for Friday

The entire studentbody is invited to the freshman Inaugural Ball on Friday from 9 to 12 p.m.

Decorations will be in the ancient Greek style to carry out the theme "Mythical Interlude." Admission is 50 cents per person.

The bands featured will be Gary Madison in the east gym of the Fieldhouse and Bill Hanson in the Smith Family Living Center. Dance chairman is Tom Roberts.

Panel to discuss grading

"The Challenge of Learning" will be the theme for the panel discussion at the senior assembly Friday at 10 a.m. in the Smith Auditorium.

Panelists are Virginia Cutler, dean of the College of Family Living; Wilford Smith, professor of sociology; Dr. Eugene Campbell, chairman of the History Dept.; and Dr. Melvin Mayes of the Political Science Dept.

According to Chuck Jenkins, chairman of the assembly, the subject under discussion will be the merits and disadvantages of the present system of grade emphasis. Special attention will be given new solutions to the emphasis on grades instead of the actual learning.

Astronomers do assignment on pendulum

by Judy Williams and
Barry Heron
Universe Feature Writers

The "Fishbowl" is not just a meeting place. For the past week, it has been the basis of a classroom assignment for approximately 150 astronomy students.

Conversationalists musing over the "Fishbowl" found themselves elbowed aside by jet-setting students from Dr. Hales' solar astronomy class.

THE AMATEUR astronomers were logging the apparent rotation of the pendulum in a day, according to Dr. Wayne B. Hales, professor of physics and mathematics. The project was to show the class that the pendulum appears to completely change the direction of its swing every 37 hours, thus demonstrating that the earth rotates on its axis.

The pendulum was named after a French physicist, J. B. Foucault. The ball swings in a mathematical pattern while the earth rotates beneath it. If undisturbed, the pendulum will continue to swing indefinitely.

Suspended on a 42 foot length of piano wire, the brass ball weighs 228 pounds. The only grip the earth has on the ball is through the wire.

If the pendulum was suspended over the North Pole, the earth would rotate under it from west to east every 24 hours. However, the ball takes 37 hours at the Provo latitude for a complete rotation.

The original ball was installed in 1949 and weighed 177 pounds. It was a gift from the class of that year.

Nine years later, on the morning of Dec. 3, 1959, the pendulum was missing. Thieves had taken the brass ball.

Nearly two months later an anonymous phone call tipped off Daily Universe editors that the ball could be found in the botany pond.

THE THIEVES had dropped it in the pond after seeing it deeply under the bottom. It was wrapped in a canvas bag and contained the message "Have a ball."

The Pacific States Cast Iron Pipe Company offered to recast the original ball at their expense. Seventy-three pounds and 14 extra inches of solid brass were added to the sphere.

IT WAS THEN machined to perfect symmetry by Cecil Oaks, then maintenance and operations director of the physical plant department.

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Frosh to present talent

The freshman class will present itself to the studentbody in its assembly Friday at 10 a.m. in the Fieldhouse.

According to chairman Don McCall, freshman talent will be presented in a talent show and the class officers will be introduced. The program is under the direction of Gary Walker, freshman member of the Program Board.

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GLUED TO THE SADDLE—Larry McDonald rides "Rock'n-Roll" for the BYU rodeo team in the National Rodeo Finals held at Sacramento, Calif., this summer.

BYU students place third in rodeo finals

Nine students representing the Brigham Young University captured a third place in the National Rodeo Finals held at Sacramento, Calif., this summer.

During the regular season the Y participates in the Rocky Mountain Regional circuit which includes Montana State University, Montana State College, Western Montana College at Dillon, Idaho State College, Utah State and Snow College.

IN CIRCUIT competition BYU took first-place honors and was selected to attend the finals.

The two top teams in each region are represented at the finals plus the three leading individual scorers in a given event of that region.

Competition was run in the following fields: calf roping, bull dogging, ribbon roping, bareback, saddle bronc, and bull riding. Events for girls were barrel racing, goat tying and pole bending.

JOHN FINCHER from Higley, Ariz., took first place in the nation in calf roping and third spot in ribbon roping in the National Intercollegiate Rodeo Association finals.

He was also awarded a second in calf roping and third in ribbon roping by the NIRA for the 1961 college rodeo season.

BYU WAS ALSO represented by Dale Rex, Sheril Tolbert, Jerry McDonald, Ken Blackmore, Thann Hanchett, Sharvi Hatcher, and Annette Edwards. Other members of the team are Keith Brown, Willard Phillips, Dennis Hamilton, Shiley Hatcher, and Vician Delonasi.

Out of the 12 teams represented at the finals, BYU took third place behind Wyoming and Salsross of Abilene, Tex.



Peace Corps man defends apology

WASHINGTON, Oct. 25 (UPI)

—A Peace Corps official said last night that Margery Michelmore may have been indiscreet in putting her opinions about Nigeria on a postcard, but she acted maturely after an international incident was created because of her remarks.

Lawrence Denais, acting director of training for the Peace Corps, denied that the Michelmore incident demonstrated that the corps should be shelved to prevent recurrences.

HE SAID Miss Michelmore acted properly in apologizing to the Nigerian government after her postcard referring to "primitive" living conditions in Nigeria was made public. She now is in Puerto Rico awaiting reassignment to another post.

But Carl Shipley, Republican party chairman for the district of Columbia, said Miss Michelmore made a mistake in apologizing. Shipley and Denais discussed the merits of the Peace Corps on a radio program

Schools begin working on new Western league

(UPI) — Representatives of schools in the Western Athletic Conference started work Sunday on a code for the new league.

Acting Commissioner Paul Brechler, now of the Skyline Conference, presented a model code for consideration by Arizona State University, University of Arizona, Utah, New Mexico, Wyoming and Brigham Young University.

It will require a certain grade-

point average and specific number of hours passed.

Brechler said the league will be in full operation in all sports except football by 1962. He said a full league football season should be completed by 1963.

One of the subjects expected to be discussed in the future expansion, Oregon, Oregon and Washington State have been nominated as candidate membership.

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